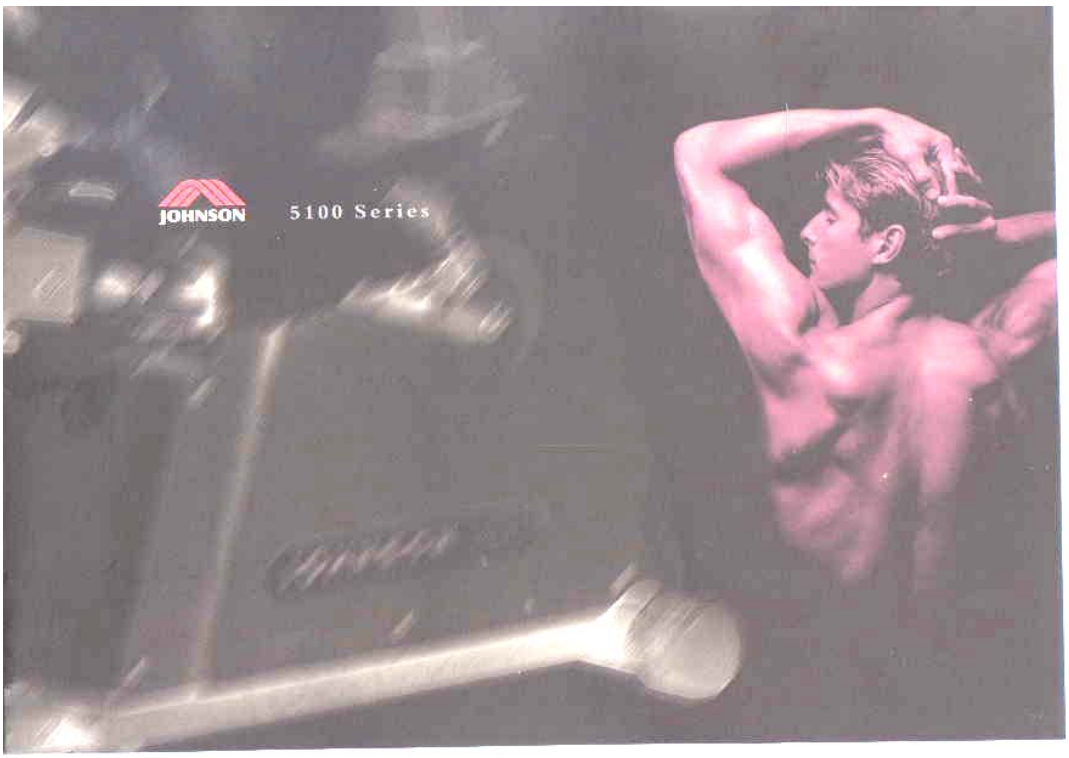
W7000 Service Manual



Service manual

Revision: 1.0 Date: 2004/7/24

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SECTION 1

LIMITED WARRANTY

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Limited Warranty

Johnson Health Technology Company and its employees are committed to providing our customers with the state-of-art designed and manufactured fitness equipment. This Limited Warranty and Service Procedure states JHT's warranty policy and warranty procedures.

Comments and Questions

We welcome comments and questions regarding our products. Please contact us at

Customer Service
Johnson Health Technology Company
P.O.BOX 22-100
Taichung, Taiwan, R.O.C
Telephone: 886-4-25667100
Facsimile: 886-4-25683456
E-mail: service@johnsonfitness.com

Scope of Warranty

All JHT products are warranted against defects in workmanship and materials. Any repairs to the parts itself, especially the electronics parts, will then void the warranty unless the rework is authorized in a written format by JHT in advance. This warranty will also not cover any damage, failure or loss caused by accident, misuse, neglect, abuse, improper assembly, or failure to follow instructions or warning in the owner's manual.

Intended Use

JHT products may be warranted for just home use only, all distributors are advised to consult the owner's manual for the limitations of the application.

Warranty Period

Generally, if not otherwise specified, JHT provides one and a half year warranty for all JHT products starting from the date of production. Warranty coverage for each product will be detailed in the respective product owner's manual.

Defects Replacement

The distributor should send out the replacement parts without charge within 24 hours for any customer's warranty claim due to defects of JHT workmanship or materials and the defects occurs during the warranty period. The distributor should also send out the replacement with charge within 24 hours for the service claims due to accident, abuse, neglect, or for the claims with the warranty expired.

Safety Stock of Warranty Parts

All the importers and distributors are required to keep an inventory of spare parts especially for those of which are recommended by JHT to service their customers in time. Distributors are advised to purchase the spare parts at 2%~3% of the total value of each shipment along with the shipment order or to always keep in their stock at least 2 to 5 pieces of each spare parts, especially the electronics parts, of the different model. If there is any importer or distributor failed to do so and wish that JHT send the replacement parts by express, it will be within JHT's discretion how to charge the distributor for both the replacement parts and shipment cost. A list of recommended spare parts could be provided with the shipment sales confirmation as long as the request is made to your JHT sales representative and is contained in the service manual as well. Please refer to the parts list to fill out the Parts Order Form and send it to your sales representative to order the parts as required.

Warranty Procedure

Defective electronics: To receive a credit accordingly, the distributor must collect the defective electronics, attach a label or tag on the defective part to identify the following information as a minimum requirements which contain the production serial number, symptom of failure and the warranty claim number. Send the defective electronics back to JHT in a routine basis (monthly is preferred). Fill out the warranty claim form and send it to JHT.

Defective motors: The distributor may choose by himself the disposition of the failed motors under warranty. You can either send the motors to your local motor manufacturer's authorized dealer for repair or you can remove the name plate, attaching a label on it to identify the failure symptom and send it back to JHT on a routine basis (monthly is preferred).

Defective Mechanical Components/Accessories: To receive a credit or the free replacement parts for the defective mechanical component under warranty, simply fill out a warranty claim form attached with the photo, graph or other media that could show us the outlook of the failure. Send all the information to JHT for approval.

Defect Return: After finishing the above processes with each kind of component, the distributors are then required to contact JHT for a returned authorization and shipping arrangement (This may not be required for the mechanical defects). Once it is authorized by JHT, the distributor should pack the parts in the most appropriate way and send the package by the way as advised by JHT.

Issuing Credit: It is within JHT's discretion to issue a credit or send parts with no charge to the distributors after the returned parts have been verified to be really defective. If the parts returned has been verified to be non defective and is good enough to be used, it will be sent back to the distributor. The distributor will be responsible for all the shipping cost incurred. No credits will be issued on the defective returns that can be proved to fail due to misuse, neglect or abuse.

Technical support

If you have any trouble in troubleshooting the failures or if you wish to complain for a mass failure to JHT, you can fill out the *Field Failure Report*. JHT will respond to your report within one day. You may call JHT customer service department directly as well if you wish, but before doing this it is preferred for you to send out the forms in advance.

SECTION 2

EXPLODED DIAGRAM

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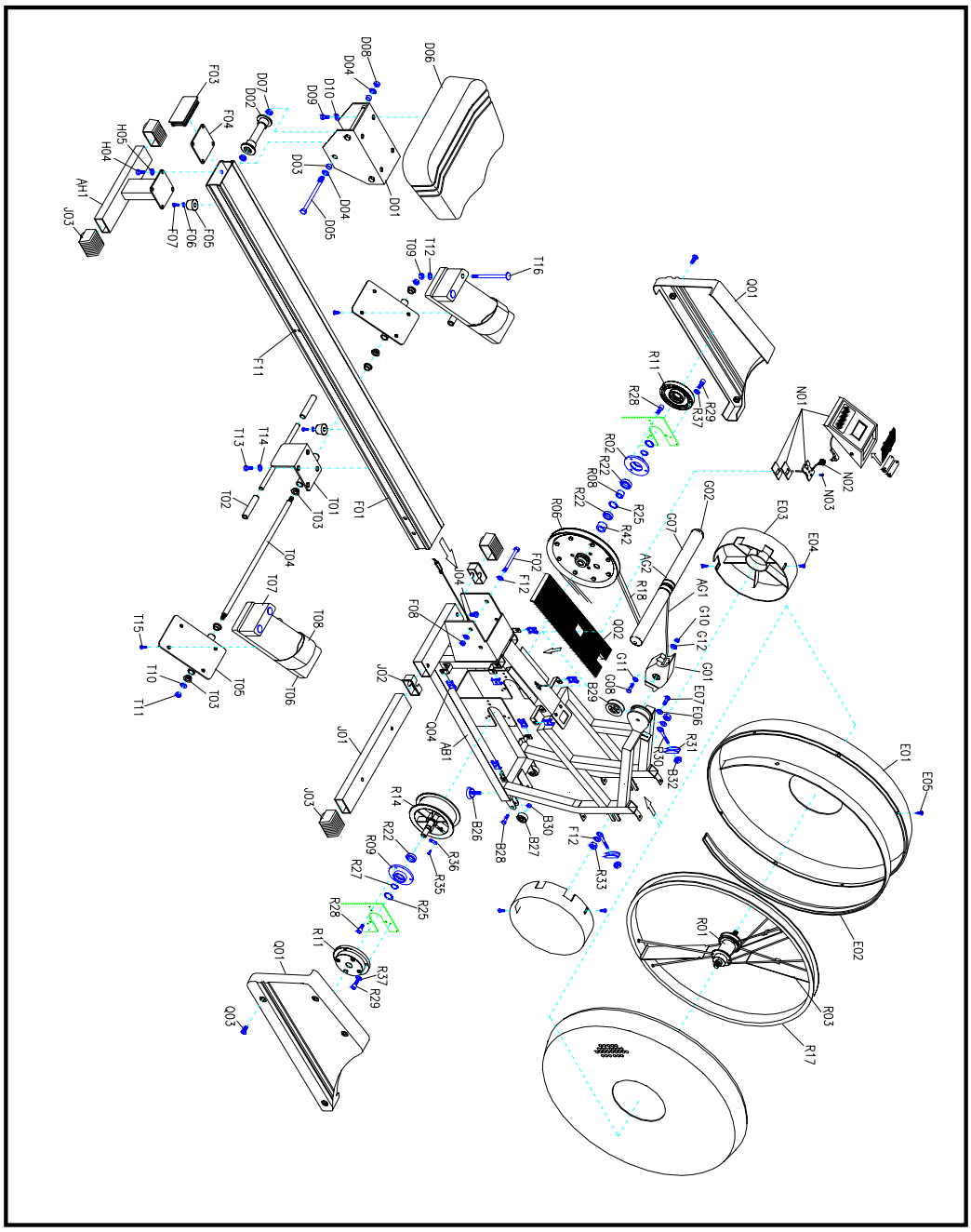
W7000 EXPLODED DIAGRAM



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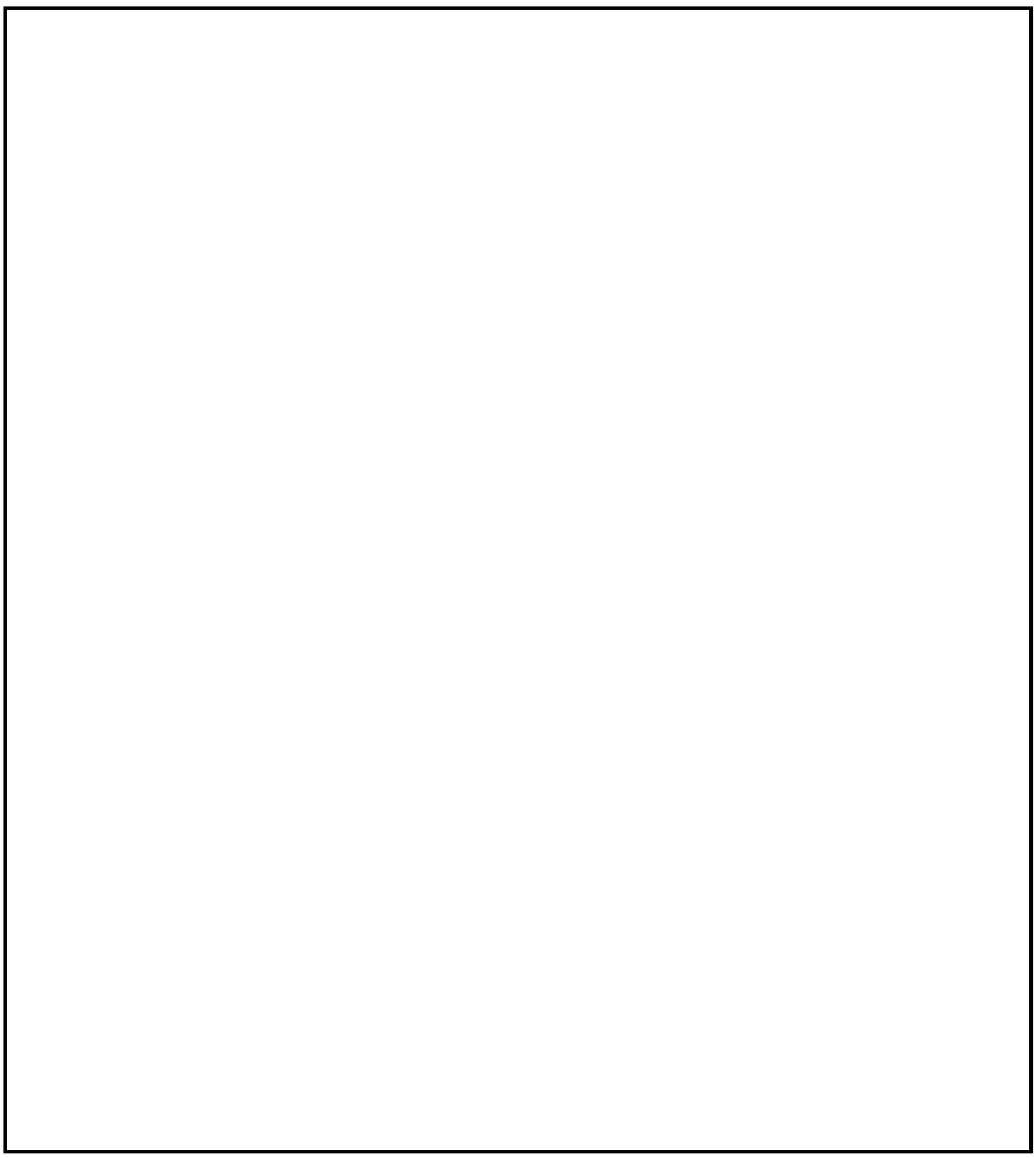
W7000 WIRING DIAGRAM



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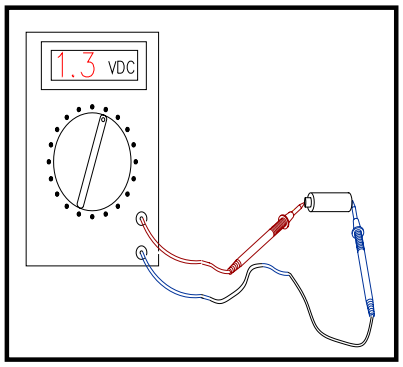
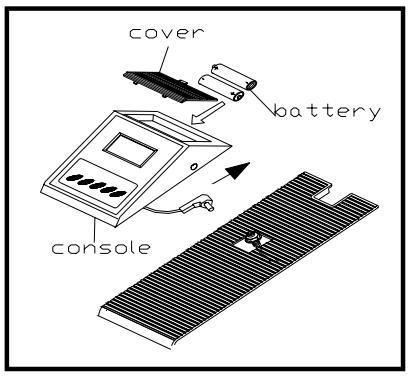
註解:

No display on the console while any function key is pressed

Possible causes:

1. Battery is not energy enough
2. Console is damaged.





Fix:

1. Remove the battery cover from the console, then check if the battery 's voltage is greater than 1.3 VDC.
   - ◆ If it is not, replace the battery and check again.
2. Replace the console with a new one

No display is on the console while adjusting the seat, but there is display while any key is pressed

Possible causes:

1. Improper adjustment of the seat.
2. Console cable has not been connected well to the connector or broken.
3. Console is damaged.
4. Magnet is missing or not positioned well.
5. Sensor is damaged or loosely attached.

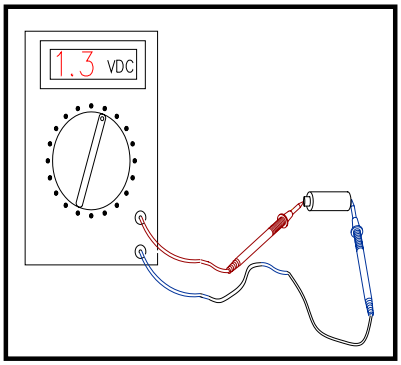
Fix:

1. Slide the seat to far end of the rail and slide it back and forth several times to check if there is display on the console
2. Remove the console and check if the terminal of console cable is connected properly.
   - Reconnect the cable.
   - If the cable is damaged, replace it with a new one.
3. Console is damaged, replace it with a new one.
4. Re-position the magnet.
5. Replace it with a new one or re-attach it.

Console function will not function properly

Possible causes:

1. Batteries do not have enough voltage.
2. Console is out of order



Fix:

1. Remove the battery cover from the console, then check if the battery's voltage is greater than 1.3 voltage.
   ◆ If it is not enough, replace the battery and check again.
2. Replace the console with a new one.

“Count” value won’t increase while the seat is being adjusted

Possible causes:

1. Improper operation of the seat adjustment.
2. Console cable is broken or not in good contact with the connector.
3. Console is out of order
4. Magnet has fallen out.
5. Sensor is loosely attached or broken.

Fix:

1. Slide the seat to far end of rail and slide it back and forth several times to check if there is display on the console
2. Remove the console and check if the console cable has been connected properly.
   - Reconnect the cable.
   - Or replace it with a new one.
3. Console is damaged, replace it with a new one.
4. Check if the magnet is positioned well.
5. Replace the sensor or re-attach it.

SECTION 5

Parts Replacement

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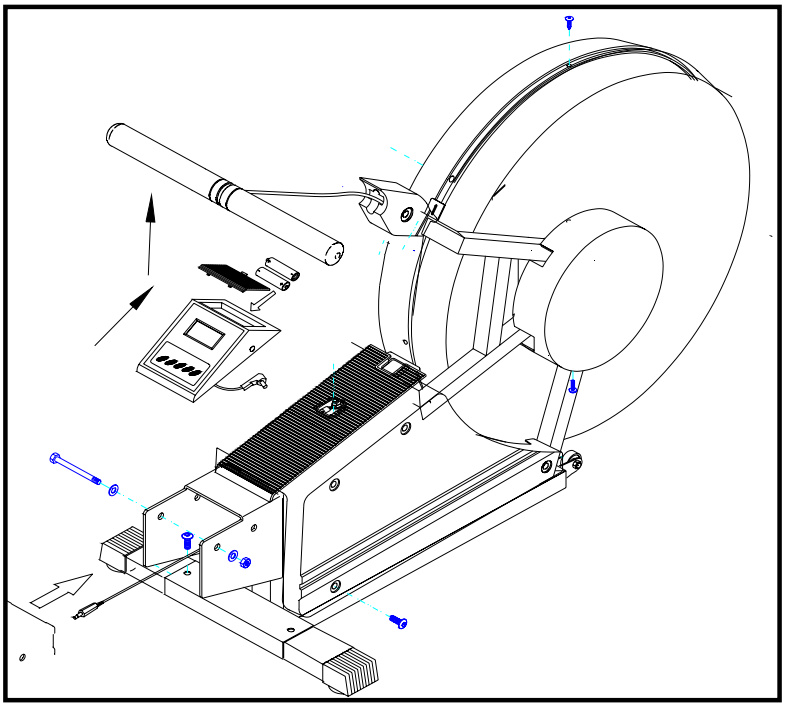
CONSOLE REPLACEMENT PROCEDURE

Tools required:

- none



Procedure:

1. Push the console forward and pull the console out and unplug the sensor cable terminal from the connector then remove the console.

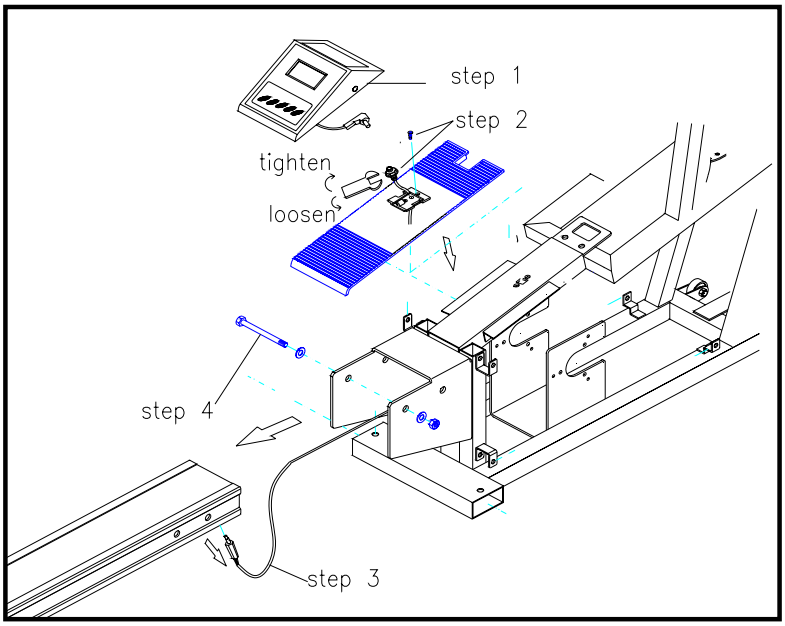
2. Replace console with a new one.

CONSOLE WIRE REPLACEMENT PROCEDURE

Tools required:

- Philips screwdriver
- Open-end wrench (8&15mm)

Procedure:



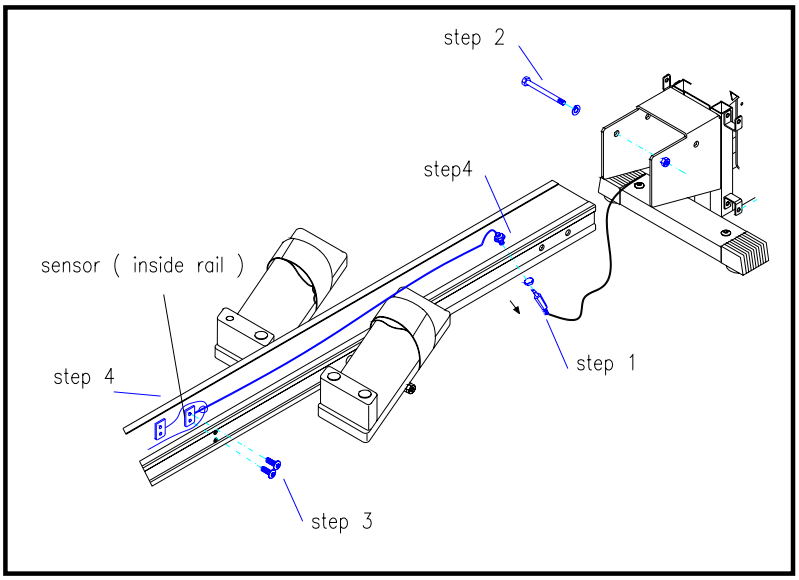
1. Push the console forward and pull the console up, then unplug the sensor wire terminal from the connector then remove the console
2. With the open-end wrench loosen the nut and with the Philips screwdriver loosen the screws from the female connector.
3. Unplug the console wire from the rail
4. Loosen the bolts attaching the bracket to the rail then remove the rail.
5. Replace console wire with a new one.
6. Reverse step 1-2 to install the parts.

SENSOR REPLACEMENT PROCEDURE

Tools required:

- Philips screwdriver
- Open-end wrench (8&15mm)

Procedure:



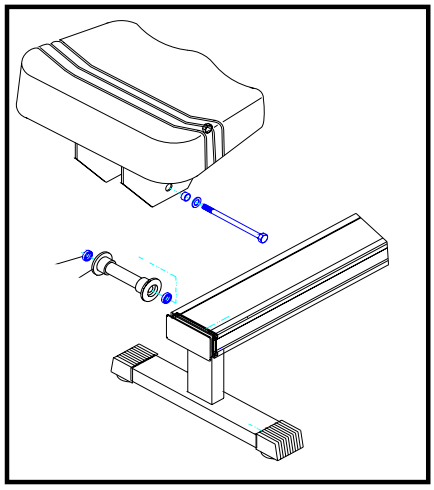
1. Unplug the console wire from the rail
2. Loosen the bolts attaching the bracket to the rail then remove it
3. Loosen the screws attaching the sensor to the rail then tie a new sensor to bad sensor with a rigid string
4. Loosen the nut attaching the female connector to the rail with the open-end wrench. Pull the old cable from the front end until the new cable threads all the way through the rail
5. Reverse step 1-5 to install the parts

SEAT REPLACEMENT PROCEDURE

Tools required:

- Philips screwdriver
- Open-end wrench (13mm)

Procedure:



1. Remove the bolt from the seat roller by using the open-end wrench (13mm) then remove the seat

2. Loosen the screws holding the seat to the bracket.

3. Replace the seat with a new one

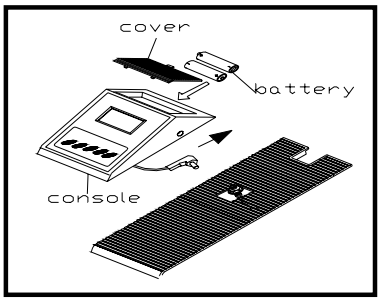
4. Reverse step 1-2 to install all the parts

DRIVE BELT 3V-530 REPLACEMENT PROCEDURE

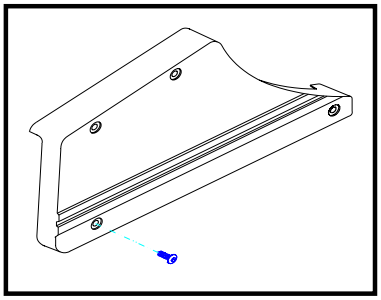
Tools required:

- Philips screwdriver
- Hex key (4mm)
- Ratchet Box Wrench (11mm)

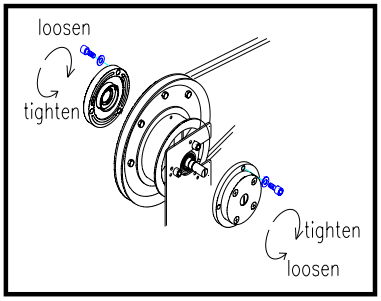
Procedure:



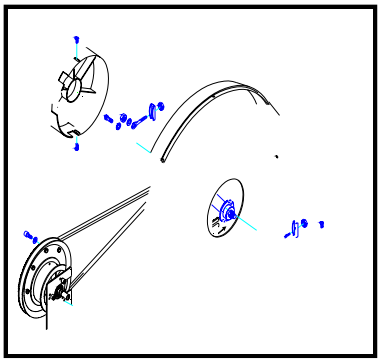
1. Push the console forward and pull the console out, then unplug the sensor cable terminal from the female connector then remove the console and skid pad.



2. Loosen the screws from the side covers and remove it.
3. Remove tension springs set and loosen the screws attaching cable wheel axle to the frame, then remove the axle and belt



4. Loosen the screws from the shroud cover
5. Loosen the screws attaching the hub drive train assembly to the frame, then remove the axle and belt.



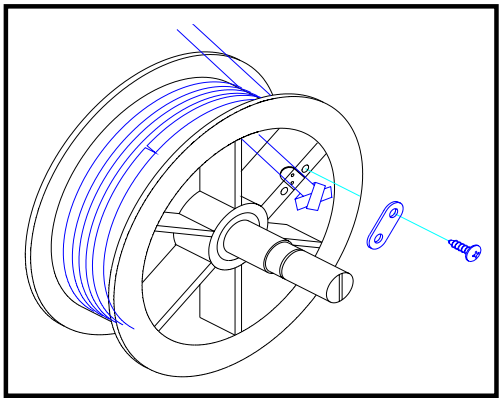
6. Install the belts onto the pulley of hub drive train assembly and rope axle.
7. Reverse step 1-5 to install the parts

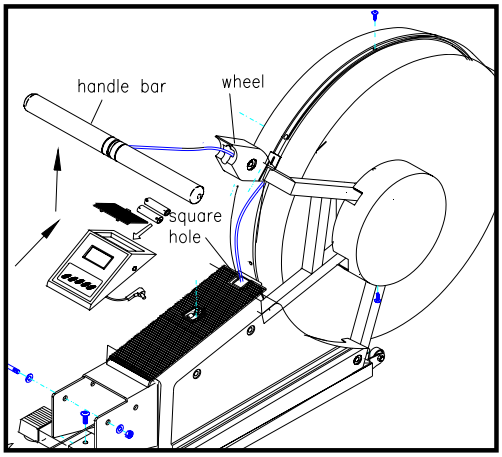
NYLON ROPE REPLACEMENT PROCEDURE

Tools required:

- Philips screwdriver
- Hex key (4mm)
- Open end wrench (14mm)

Procedure:





1. Follow the tension spring set (refer to page 77) replacement procedure to remove the parts.

2. Loosen the screws attaching the rope to the rope wheel.

3. Cut down the rope and remove it

4. Replace it with a new rope, first thread the rope through the guide hole of the rope wheel and tie a knot, put the bracket onto the knot, then tighten the screws.

5. Thread the other end of the rope through the square hole of the bracket, and the wheel in the handle holder cover then tie the rope to the handle bar.

6. Turn forward the rope wheel until the handle touches the handle holder.

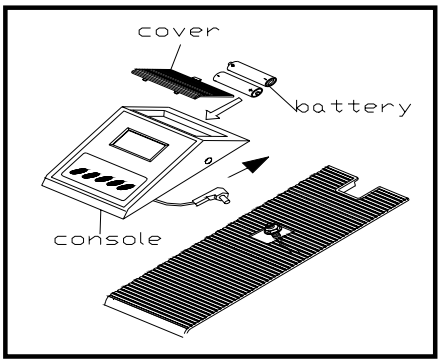
7. Reverse step 1-6 to install the parts.

TENSION SPRING SET REPLACEMENT PROCEDURE

Tools required:

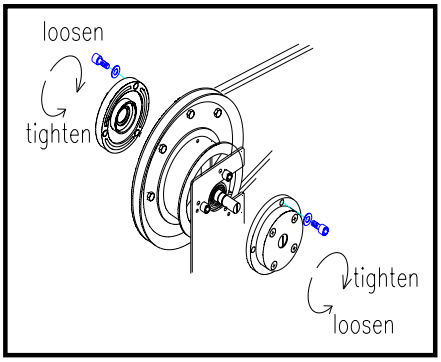
- Philips
- Screwdriver
- Hex key (4mm)

Procedure:



1. Remove the console and skid pad. Loosen the screws from the side covers with the screwdriver then remove side covers.

2. Loosen the belts (500/440J8&400/380J6) from the pulley



3. With the hex key loosen the screws from the tension spring set.

4. Replace it with a new one then turn the set CW about 2.5-3 turns

5. Reverse the step 1-3 to install the parts.

APPENDIX

RECOMMENDED TOOLS

A: OPEN-END WRENCH (17mm)
B: OPEN-END WRENCH (14mm)
C: RATCHET BOX WRENCH (11mm)
D: PHILIPS SCREWDRIVER
E: SLOTTED SCREWDRIVER
F: CRANK EXTRACTOR
G: MULTIMETER

HEX KEYS

1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8, 10 (mm)

1 **WOODEN HAMMER**
2 **BEARING PULLER**
3 **C-CLIP PLIERS**
4. **C-CLIP PLIERS**